

# 102-F5 18165

Math for Liberal Arts  
Dr Matthew Sunderland

1. Synchronous lecture Monday 8:00–9:55 Wednesday 8:00–8:50  
<https://zoom.us/meeting/register/tJUocu6trTsuHtA5anoJr5LEor8D1iMFQZZr>
2. Online problem sets due Sundays  
[https://www.math.csi.cuny.edu/webwork2/Math102\\_18165\\_Sunderland\\_F20/](https://www.math.csi.cuny.edu/webwork2/Math102_18165_Sunderland_F20/)  
Both username and password are your CUNY username,  
eg, **username first.last00 password first.last00**, all lowercase (*not* jsmith5678)
3. Written assignments due some Sundays on  
<https://www.gradescope.com> course code 9Z28GZ
4. Reading assignments due each night before lecture  
*Mathematical Excursions 4e* by Aufmann, Lockwood, Nation, Clegg (Houghton Mifflin)
5. Office hours **[as of 8/3] Mon 5p–6p, Thu 11a–12p, Fri 2p–3p**  
<https://zoom.us/my/mattsunderland>
6. Announcements, Lecture Recordings, and Grades posted on  
<https://bbhosted.cuny.edu>
7. Platform for administering exams TBD,  
possibly Blackboard, Gradescope, WeBWorK, Respondus, or Proctortrack
8. **Tutoring available at**  
<https://www.csi.cuny.edu/students/academic-assistance/tutoring>

## Day 1 Homework

1. Download Zoom and create free account
2. Do Online Problem Set 1 by Sunday 8/30
3. Submit Written Assignment 1 by Sunday 8/30—see last two pages of syllabus
4. Do first reading assignment (Section 9.1) by Sunday 8/30
5. Do office hour survey <https://forms.gle/RRf74atLQkR3kg5DA>

$$\text{Course Grade} = \text{Average of} \left\{ \begin{array}{l} \text{Coursework} \\ \text{Exam 1} \\ \text{Exam 2} \\ \text{Final} \end{array} \right\} \left\{ \begin{array}{l} 1. \text{ Lecture participation} \\ 2. \text{ Online problem sets} \\ 3. \text{ Written assignments} \end{array} \right.$$

**Lecture Recording Statement** *Students who participate in this class with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the “chat” feature, which allows students to type questions and comments live.*

**Deadlines**   Add 9/1   Drop 9/15   Withdraw 11/6

COLLEGE OF STATEN ISLAND  
DEPARTMENT OF MATHEMATICS  
COURSE OUTLINE  
MTH 102 -- Mathematics for Liberal Arts

Fall 2017

TEXT: Mathematical Excursions 4<sup>th</sup> Edition by Aufmann/Lockwood/Nation/Clegg;

Houghton Mifflin Company

<http://www.math.csi.cuny.edu/Courses>

REQUIRED: Scientific Calculator

LESSON	SECTION	TOPICS	HOMEWORK PROBLEMS
1,2,3	9.1 pp. 496-504	<b>FIRST DEGREE EQUATIONS</b>	
		Solving First-Degree Equations	P. 506/1,3,5,9,11,17,19,25
		Applications	Pp.507-508/42,43,47,48,51,52,57a,b,59
		Literal Equations	Pp. 508-509/69,71,73,75,77,79,88,89
4,5	9.2 pp. 509-517	<b>RATE, RATIO &amp; PROPORTION</b>	
		Rates, ratios	Pp. 518-520/8,9,10,14,17,18,21, 27-31
		Proportions	P. 521/35,43,46-51
6,7,8	9.3 pp. 522-533	<b>PERCENTS</b>	
		Percents	P. 535/7,8,9,13,14,16
		Percent Problems: The Proportion Method, The Basic Percent Equation	Pp. 535-536/18,20,22
		Percent Increase and Decrease	P. 536/24,26,27,28
9*		REVIEW SESSION (Chapter 9)	Pp. 550-552/1,3,4,9,10,11,15,16, 18,21,23,25,29
10,11	7.3 pp. 376-387	<b>PERIMETER &amp; AREA of PLANE FIGURES</b>	
		Perimeter of Plane Geometric Figures	Pp. 389-390/7,9,11,17,18,19,22,23,25,29,31,33, 35,36,39
		Areas of Plane Geometric Figures	P. 390/29,31,33,35,36,39
12	7.5 pp.406-412	Volume	P. 414/1-6,13-23 odd only
13,14*		REVIEW FOR TEST 1	<a href="http://www.math.csi.cuny.edu/Courses">http://www.math.csi.cuny.edu/Courses</a>
15		TEST 1	
16,17	12.1 pp. 688-692	<b>THE COUNTING PRINCIPLE</b>	
		Counting by Making a List, Table, Tree Diagram The Counting Principle	P. 695/1,3,5,7,9,10,15,17,19,21,23,25, 26
18,19	12.2 pp. 696-703	<b>PERMUTATIONS and COMBINATIONS</b>	
		'n' Factorial, Permutation	Pp. 705-706/3,5,6,13,15,45-48,54
		Combination	Pp. 705-706/ 21,23,25,27,29,37,39,43,49,50,51,56, 65-70

LESSON	SECTION	TOPICS	HOMEWORK PROBLEMS
20,21,22	12.3 pp. 707-714	<b>PROBABILITY and ODDS</b> Introduction to Probability Applications to Genetics Calculating Odds	Pp. 715-717/1,3,7,9,13,23,24,27,31,35-47 odd P. 716/53-56 P. 717/59,60,67,69,71,74,77,79,80
23	12.4 pp. 718-729	<b>ADDITION and COMPLEMENT RULES</b> Addition rules for Probabilities The Complement of an Event	Pp. 725-726/3,5,7,9,11,21,23,25,27,29,31 32,33,39,40,43,45
24*		REVIEW SESSION ( Chapter 12)	Pp. 746-748/4,5,11-18,20-22,27-30 33,34,37-39,41-44,47,48,52,53
25,26	13.1 pp. 752-757	<b>MEASURES of CENTRAL TENDENCY</b> Mean, Median, Mode The Weighted Mean	P. 759/1,3,5,6,11,13,15 Pp. 759-761/17,19,21,23,27,29,31,33
27,28	13.2 pp. 762-767	<b>MEASURES of DISPERSION</b> The Range, The Standard Deviation, The Variance	P. 769/1-5,7,9,13-16
29,30	13.4 pp. 781-785	<b>NORMAL DISTRIBUTIONS</b> Frequency Distributions and Histograms Normal Distributions and the Empirical Rule	P. 791/1,2 P. 792/3,5,6,7,8
31,32*		REVIEW SESSION (Chapter 13) REVIEW for TEST 2	P. 808/1,2,3,6,7 <a href="http://www.math.csi.cuny.edu/Courses">http://www.math.csi.cuny.edu/Courses</a>
33		<b>TEST 2</b>	
34,35	11.1 pp. 620-626	<b>SIMPLE INTEREST</b> Simple Interest, Future Value and Maturity Value	Pp. 627-628/5,7,9,11,21,25,27,31,34 36,37,39,40,43-47
36,37,38, 39	11.2 pp. 628-640	<b>COMPOUND INTEREST</b> Compound Interest, Present Value, Inflation, Effective Interest Rate	Pp. 642-643/1,3,5,7,15,18,27,31,35,40,45, 51,53,55,57,59,63-67
40*		REVIEW SESSION (Chapter 11)	Pp. 683-684/1-12
41-42*		REVIEW for <b>FINAL</b>	

\*Indicates Review Sessions

# Written Assignment 1

Name \_\_\_\_\_ EMPLID \_\_\_\_\_

Course \_\_\_\_\_ Date \_\_\_\_\_

Directions: Upload your completed assignment to Gradescope as a PDF. For full credit, each page of your submission must be right side up and the pages must be in the correct order. If Gradescope asks you to match questions to pages, do so. Many students find it easier to type/annotate directly onto the PDF on the computer; other students prefer to print out the assignment, handwrite their answers, and then use a scanning app to get the completed assignment back onto the computer. If you scan, make sure you scan as a single PDF (with two pages) and make sure you scan as a document, not a picture (completely white background between text).

## Question 1.

Is this your first math course at CSI? If not, what math course did you take before this?

## Question 2.

What is your preferred email address?

**Question 3.**

Are you taking this course to satisfy a requirement? Some other reason?

**Question 4.**

Is there some grade in this course that you will strive to make?